

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): ~~Process~~ A process for manufacturing a fragmented layer of material ~~[[(14)]]~~ on a support, ~~characterised in that it comprises~~ comprising:

~~[[-]]~~ a deposition step for depositing, ~~in a discontinuous manner~~, a thin layer ~~[[(14)]]~~ of this material on said support, ~~in a discontinuous manner~~, and

~~[[-]]~~ followed by a step for putting this thin layer into drops.

Claim 2 (Currently Amended): ~~Process~~ The process according to claim 1, wherein putting into drops is achieved by heat treatment.

Claim 3 (Currently Amended): ~~Process~~ The process according to claim 1, wherein putting into drops is achieved by hydrogen plasma treatment at low temperature.

Claim 4 (Currently Amended): ~~Process~~ The process according to ~~any of claims~~ claim 1 ~~to 4~~, further comprising a previous step for depositing a thermal or diffusion barrier layer ~~[[(12)]]~~.

Claim 5 (Currently Amended): ~~Process~~ The process according to claim 4, wherein the thermal or diffusion barrier layer ~~(12) being~~ is made of TiN~~[[,]]~~ and the material ~~being~~ is nickel.

Claim 6 (Currently Amended): ~~Process~~ The process according to ~~any of claims~~ claim 1 ~~to 5~~, wherein the material is a metal.

Claim 7 (Currently Amended): ~~Process~~ The process according to ~~one of claims claim~~ 1 to 6, wherein the deposition step of the material layer ~~being is~~ performed in the presence of an oxygen partial pressure.

Claim 8 (Currently Amended): ~~Growth~~ A growth process of carbon nanotubes or ~~nanofibres~~ nanofibers, comprising:

[[-]] ~~production of~~ producing a catalytic metal layer according to ~~any of claims~~ claim 1 to 7, and

[[-]] ~~growth of~~ growing nanotubes or ~~nanofibres~~ nanofibers on the catalyst layer thus obtained.

Claim 9 (Currently Amended): ~~Process~~ The process according to claim 8, wherein the growth of nanotubes or ~~nanofibres~~ nanofibers ~~being is~~ obtained by chemical ~~vapour~~ vapor phase deposition.

Claim 10 (Currently Amended): ~~Process~~ A process for producing a surface with controlled roughness on a support, comprising:

[[-]] ~~production of~~ producing a fragmented thin layer of material on this support, according to ~~any of claims~~ claim 1 to 7.

Claim 11 (Currently Amended): ~~Process~~ The process according to claim 10, further comprising:

[[-]] ~~formation of~~ forming an oxide layer on the material layer thus formed; and

[[-]] a polishing step.

Claim 12 (Currently Amended): ~~Process~~ A process for producing a metal/oxide mix on the surface of a support, ~~including~~ comprising:

[[~~-~~]] ~~production of~~ producing a fragmented thin layer of a metallic material on this support, according to ~~any of claims~~ claim 1 to 7.

[[~~-~~]] ~~formation of~~ forming an oxide layer on the layer of material thus formed, and

[[~~-~~]] a polishing step.

Claim 13 (New): A process for manufacturing a fragmented layer of material on a support comprising the succession of:

a deposition step of a diffusion or thermal barrier layer,

a deposition step for depositing, in a discontinuous manner, a thin layer of this material, preferably a metal, on said barrier layer, and

a step for putting this thin layer into drops.

Claim 14 (New): The process according to claim 13, wherein putting into drops is achieved by heat treatment or by hydrogen plasma treatment at low temperature.

Claim 15 (New): The process according to claim 13, wherein the deposition step of the material layer is performed in the presence of an oxygen partial pressure.

Claim 16 (New): A growth process of carbon nanotubes or nanofibers, comprising:
producing a catalytic metal layer according to claim 13, and
growing of nanotubes or nanofibers on the catalyst layer thus obtained.

Claim 17 (New): The process according to claim 16, wherein the growth of nanotubes or nanofibers is obtained by chemical vapor phase deposition.

Claim 18 (New): A process for producing a surface with controlled roughness on a support, comprising:

producing of a fragmented thin layer of material on this support, according to claim 13.

Claim 19 (New): The process according to claim 18, further comprising:

forming an oxide layer on the material layer thus formed; and
a polishing step.

Claim 20 (New): A process for producing a metal/oxide mix on the surface of a support, including:

producing a fragmented thin layer of a metallic material on this support, according to claim 13;

forming an oxide layer on the layer of material thus formed, and
a polishing step.